

We claim:

1. An optical data disc comprising:
 - a first side and a second side, each side including a first data layer and a second data layer;
 - wherein data are arranged on the data layers of said first side along first spirals oriented in a first direction when viewed on said first side, and data are arranged on the data layers of said second side along second spirals oriented in a direction opposite that of said first spirals when viewed on said second side.
2. The optical data disc of claim 1 wherein said disc has a periphery and a hub, and wherein data are contained on tracks having said spiral orientations between said periphery and said hub.
3. The optical disc of claim 2 further comprising lead-in, lead-out and intermediate areas.
4. The optical disc of claim 1 wherein data are arranged on the disc to be played in sequence starting with data on said first side and ending with data on said second side.
5. An optical disc comprising:
 - a first side with top and bottom layers, each layer having a respective

track extending between the hub and the periphery of the disc along a first spiral; and

a second side having a top layer with a track extending between the hub and the periphery of the disc along a second spiral;

wherein said first and second spirals are oriented in opposite directions as viewed from their respective sides.

6. The disc of claim 5 wherein said second side includes a bottom layer having a bottom track extending between the hub and the periphery of the disc along said second spiral.

7. The disc of claim 6 wherein data are arranged in a sequence starting on one layer of said first side and ending on another layer of said second side.

8. The disc of claim 7 wherein said sequence starts on the top layer of said first side and ends on the top layer of the second side.

9. The disc of claim 7 wherein said sequence starts on the top layer of said first side and ends on the bottom layer of the second side.

10. The disc of claim 7 wherein said sequence starts on the bottom layer of said first side and ends on the top layer of the second side.

11. The disc of claim 7 wherein said sequence starts on the bottom layer of said first side and ends on the bottom layer of the second side.

12. The disc of claim 7 wherein the first track of the sequence starts from the periphery and extends toward the hub and the last track of the sequence starts from the hub and extends toward the periphery.

13. The disc of claim 7 wherein the sequence starts at the periphery of the disc and ends at the periphery of the disc.

14. The disc of claim 7 wherein the sequence starts at the hub of the disc and ends at the hub of the disc.

15. The disc of claim 7 wherein on each side the track of the inner layer has one radial direction and the track on the outer layer has an opposite radial direction.

16. An optical data disc comprising:

a first side and a second side, each side including a data layer;

wherein data are arranged on the data layers of said first side along a first spiral oriented in a first direction when viewed on said first side, and data are arranged on the data layer of said second side along a second spiral oriented in a direction opposite that of said first spirals when viewed on said second side.

17. The optical data disc of claim 16 wherein said disc has a periphery and a hub, and wherein data are contained on tracks having said spiral orientations between said periphery and said hub.

18. The optical disc of claim 16 further comprising lead-in and lead-out areas.

19. The optical disc of claim 16 wherein data are arranged on the disc to be played in sequence starting with data on said first side and ending with data on said second side.

20. A method of storing data on an optical disc having two sides, comprising:

placing the data in tracks on respective sides, said tracks being disposed along spirals, with the track on one side being disposed along a first spiral oriented in a first direction and the tracks on the other side being disposed along a second spiral oriented in a direction that is opposite to said first direction, as viewed normally from the respective sides.

21. The method of claim 20 further comprising forming said tracks in a radial direction between the periphery and the hub.

22. The method of claim 20 further comprising placing data on the disc to form a sequence on said tracks, the sequence starting on one side and ending on the opposite side.

23. The method of claim 20 wherein at least one side is provided with at least two data layers on one side, further comprising providing data in tracks on said one side.

24. An optical data disc comprising:

a first side and a second side, each side including a data layer with a data track, the data track of said first side being disposed along a first spiral oriented in a first direction when viewed on said first side, and the data track on the second side being disposed along a second spiral oriented in a direction opposite that of said first spiral when viewed on said second side.

25. The optical data disc of claim 24 wherein said data track includes program data.

26. The optical data disc of claim 25 wherein the data layer on said first side includes a main portion with said data track and another area with disc

characteristic information.

27. The optical disc of claim 26 wherein said another area includes rotation indicia defining a direction of rotation for the disc that allows data to be read.

28. The optical disc of claim 24 wherein said data track is blank so that data so that it can accept data.

29. The optical disc of claim 28 wherein said disc includes another area that includes rotation indicia defining a direction of rotation for the disc that allows data to be read.